Information Disclosure Statement regarding U.S. Application 5. 10/037718, Title of the Invention: Two-Dimensional Linkage Study Methods and Related Inventions. Attomey's Docket No. 2DLSM&R12/01

In the United States Patent and Trademark Office

In re application of:

Inventors: MCGINNIS, Ralph Evan and

MCGINNIS, Robert Owen

Title of the Invention: "Two-Dimensional Linkage Study Methods and Related Inventions"

U.S. Application No. 10/037718 Date of filing: 4 January 2002

Patent application 10/037718 is a continuation-in-part of U.S. Patent Application 09/947,768 (filed 5 SEPT 2001), now abandoned. And 09/947,768 claims priority from US Provisional 60/230570 (filed 9/5/2000). Patent Application 09/947,768 is a continuation-in-part of U.S. Patent Application 09/623,068 (filed 26 AUG 2000). The present patent application is also a continuation-in-part of Patent Application 09/623,068 (filed 26 AUG 2000). Application 09/623,068 claims priority from PCT/US99/04376 filed (2/26/99). PCT/US99/04376 claims priority from US Provisional applications: 60/076182 filed 27Feb1998, 60/086947 filed 27May1998, 60/076102 filed 26 Feb 1998 and 60107673 filed 7 Nov 1998.

Art unit: 1656

#### Information Disclosure Statement

c/o Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir/ Ms.:

Attached hereto is Form PTO/SB/08B (4 sheets) listing documents believed relevant to the subject application. It is respectfully requested that these documents be considered by the examiner and an initialed copy of each form be returned to the undersigned.

This disclosure statement should not be construed as a representation that a search has been made or that no other material information as defined in 37 C.F.R. 1.56 (a) or similar requirements exists.

It is believed that this disclosure complies with the requirements of 37 C.F.R. 1.56, 1.97, 1.98 and the M.P.E.P. 609 and similar requirements. If for some reason the examiner considers otherwise, it is respectfully requested that the undersigned be notified.

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Information Disclosure Statement regarding U.S. Application...o. 10/037718, Title of the Invention: Two-Dimensional Linkage Study Methods and Related Inventions. Attorney's Docket No. 2DLSM&R12/01

Nonpatent documents A through W inclusive are listed in this IDS. Some of the documents may have markings thereon. No significance is meant to be attached to the markings. A copy of documents A through N is not enclosed. A copy of documents A through N inclusive was included with the IDS submitted for US Application No. 09/623,068. The present application is a CIP of Application No. 09/623,068. A copy of documents O and P is enclosed. (A copy of documents O and P was also included with the International Search Report of PCT/US99/04376 conducted by the U.S.P.T.O.) A copy of documents Q through W inclusive is not enclosed. A copy of documents Q through W inclusive was included with the IDS submitted for US Application 09/947,768 (now abandoned). The present application is a CIP of 09/947,768 under 35 USC 120. These documents, documents A through W inclusive, are not necessarily analogous art.

Patent documents 1 through 5 inclusive are listed in this IDS. A copy of document 2, US Application No. 09/623, 068 is not enclosed. The present application is a CIP of 09/623, 068 under 35 USC120. A copy of document 1, PCT/US99/04376 is not enclosed. PCT/US99/04376 is the corresponding International Application to 09/623, 068 and is essentially cumulative with respect to 09/623, 068. A copy of document 3, US Provisional Application 60/230570 is not enclosed with this IDS. A copy of document 3 was included with the IDS for US Application 09/947,768 (now abandoned). The present application is a CIP of 09/947,768 under 35 USC 120. A copy of document 4, US Application 09/947,768 (now abandoned) is not enclosed. The present application is a CIP of 09/947,768 under 35 USC 120. A copy of document 5, EPO/ 97401740.2 (EP 0 892 068) is enclosed. Document 5 is not necessarily analogous art.

Document A is discussed in the background and specification of the patent application and is incorporated into the application by reference. Document B is discussed in the specification and incorporated by reference in the patent application. Documents C through I inclusive and documents O and P are discussed in the background of the patent application. Documents F, I, O, and P inclusive were listed by the examiner in the International Search Report for PCT/US99/04376. Document 5 was "made of record as a document of interest" by the U.S. examiner during the examination of US National Application 09/623068. The documents believed to be most relevant are A, D, E, F, M, Q, R, S, T, U and V.

Respectfully submitted,

Robert O. McGinnis, Coinventor and U.S. Patent Agent 44, 232

Address for correspondence: 1575 West Kagy Blvd., Bozeman, Mt. 59715,

phone 406-522-9355

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### **Express Mailing Certificate**

Related Inventions" "Two-Dimensional Linkage Study Methods and Related Inventions"

U.S. Application No. 10/037718 filed 04January2002

Enclosed herewith is an Information Disclosure Statement for the above application (2 sheets), and Form PTO/SB/08B (4 sheets) with references A through W inclusive, and patent application documents 1 through 5 inclusive, photocopies of references O (pp. 439-454 inclusive), P (pp. 1347-1363 inclusive), and patent application document 5 (pp. 1-38 inclusive), 2 return receipt postcards. This mailing certificate. Sent today by me, April 4, 2002 by Express Mail, Express Mail Label:

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Sent to Commissioner for Patents, U.S. Patent and Trademark Office, Washington, D.C. 20231 by Robert McGinnis, U.S. Patent Agent 44, 232.

Respectfully submitted,

Robert O. McGinnis

1575 West Kagy Blvd., Bozeman, MT 59715

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PTO/SB/08A (10-01)

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Application Number	10/02772			
Filing Date	04 70			
First Named Inventor	M/6/17/1/1/2007			
Art Unit	MCGINNIS, R.E.			
Examiner Name	/636			
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First Named Inventor	MC6111/2002				
Group Art Unit	MCGINNIS, R.E.				
Examiner Name	1656				
Attorney Docket Number	224				
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OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Examiner Cite item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. MCGINNIS, R.E., Annals of Human Genetics, Vol-62, pp. 159-179 (1998). MCGINNIS, RE., et.al., Genetic Epidemiology, Vol. 12, PP. 637-640 (1995). RISCH, N. and MERIKANGAS, K., Science, vol. 273, 13 Sept. 1996, pp. 1516-1517.

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RISCH, N. and MERIKANGAS, K., Science, vol. 275, 28 Feb 1997, (Technical Comments), p. 1330. KRUGLYAK, L., Nature Genetics, vol. 17, Sept. REED, P.W., et. al., Nature Genetics, vol. 7, July 1994, pp. 390-395. LEVINSON, D.F., ct. al., Amer. J. Psychiatry, vol. 155, no. 6, I KRUGLYAK, L., Amer. J. Human Genetics, Vol. 62, BENNETT, ST., et.al., Nature Genetics, Vol.9, March 1995, PP. 284-292 JULIER, C., et. al., Nature, Vol. 354, 14 Nov. 1991, pp. 155-159.

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First Named Inventor	MCGINNIS R.E.		
Group Art Unit			
Examiner Name	1656		
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Examiner Cite item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. CHARTIER - HARLIN, M-C., et. al., Hum. Mol. Genet. VOI-3, No.4, 1994, Pp. 569-574. TU, I-P. and WHITTEMORE, A.S., Amer. J. Hum. Genet., Vol. 64, 1999, pp. 641-649. ABEL, L. and MULLER-MYHSOK, B., Amer. J. Hum. Genet., vol. 63, 1998, pp. 664-667. KRUGLYAK, L. et. al, Amer. J. Hum-Genet., vol. 57, 1995, PP- 439- 454.

PKRUGLYAK, L., et. al., Amer. J. Hum. Genet., Vol. 58, 1996, PP.1347-1363. MCGINNIS, R.E., Amer. J. Hum. Genet., vol. 67, 2000, PP. 1340-1347. TERWILLIGER, J.D. and OTT, J., Hum. Hered, vol. 42, 1992; pp. 337-346. CLERGET-DARPOUX, F., et.al., Genetic Epidemiology, SCHORK, N.J., et.al., Am. J. Hum. Genet., vol. 67, 2000, Pf. 1208-1218. COOKSON, W.O.C., Abstract, 3rd International Mtg.on SNP and Complex Genome Analysis, 8-11 Sept. 2000. DARVASI, A. & MCGINNIS, R.E., Am. J Hum Genet Suppl 63: A 229 , Poster Abstract, Oct. 27-31,1998.

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